

Title (en)

ILLUMINATING DEVICE AND LIQUID CRYSTAL DISPLAY DEVICE

Title (de)

BELEUCHTUNGSVORRICHTUNG UND FLÜSSIGKRISTALLANZEIGEVORRICHTUNG

Title (fr)

DISPOSITIF D'ÉCLAIRAGE ET DISPOSITIF D'AFFICHAGE À CRISTAUX LIQUIDES

Publication

EP 2172699 A4 20110420 (EN)

Application

EP 08792175 A 20080804

Priority

- JP 2008063978 W 20080804
- JP 2007260377 A 20071003

Abstract (en)

[origin: EP2172699A1] The backlight (2) (illumination device) in accordance with the present invention includes a spot-shaped light source (LED) (5) and a light guide unit (11) including a light guide (7) diffusing and surface-emitting a light from the light source. The light guide unit (11) includes in addition a substrate (4) to dispose and fixate the light source (5) and the light guide (7). Protruding sections (12) are provided on an incident face of the light from the light source (5) of the light guide (7) so as to protrude in a direction opposite to an incident direction of the light from the light source. Further, the light guide (7) is fixedly disposed on the substrate (4) by connecting the protruding sections (12) to the substrate (4). As a result, with the illumination device using the light source and the light guide, it is possible to achieve an illumination device with a higher light use efficiency and higher luminance homogeneity.

IPC 8 full level

F21V 8/00 (2006.01); **G02B 6/00** (2006.01); **G02F 1/13357** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)

G02B 6/0046 (2013.01 - EP US); **G02B 6/008** (2013.01 - EP US); **G02B 6/0091** (2013.01 - EP US)

Citation (search report)

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- [A] JP S5953703 U 19840409

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TWI408462B

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2172699 A1 20100407; **EP 2172699 A4 20110420**; **EP 2172699 A8 20100623**; **EP 2172699 B1 20130213**; CN 101779078 A 20100714; CN 101779078 B 20121128; HK 1137210 A1 20100723; HK 1143850 A1 20110114; JP 5189596 B2 20130424; JP WO2009044584 A1 20110203; US 2010188604 A1 20100729; US 8345186 B2 20130101; WO 2009044584 A1 20090409

DOCDB simple family (application)

EP 08792175 A 20080804; CN 200880025540 A 20080804; HK 10104072 A 20100427; HK 10110384 A 20101105; JP 2008063978 W 20080804; JP 2009535994 A 20080804; US 66983008 A 20080804